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Title: Planar Waveguide with Patterned Cladding and Method for Producing Same

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Amendments to the Claims:

Claim 25 (Currently Amended): An integrated optical waveguide comprising:
a substrate;
a light transmissive element comprising a waveguide and a lens as a unitary body;
an upper cladding ~~patterned~~ patterned to have at least one region in which the light transmissive element is air clad ; and
wherein said lens has a face perpendicular to the substrate and focuses light in a plane parallel to the substrate and a lens face width at least 50% larger than the waveguide.

Claim 66 (New): An integrated optical waveguide according to claim 25 including a lower cladding layer between the substrate and the light transmissive element.

Claim 67 (New): An integrated optical waveguide according to claim 66 wherein the lower cladding layer comprises materials selected from polymeric materials, glass and semiconductors.

Claim 68 (New): An integrated optical waveguide comprising:
a substrate;
one or more cladding layers comprising at least one cladding layer patterned to have at least one region with the cladding material absent; and
one or more light transmissive elements each comprising a waveguide and a lens as a unitary body; wherein said lens has a face perpendicular to the substrate and a lens face width at least 50% larger than the waveguide and focuses light in a plane parallel to the substrate.

Claim 69 (New) The integrated optical waveguide of claim 68 wherein at least one of said one or more cladding layers is composed of an organosilicon condensate polymer.

Claim 70 (New) The integrated optical waveguide of claim 68 wherein said one or more light transmissive elements and at least one of said one or more cladding layers are composed of materials chosen from a group comprising organosilicon condensate polymers, polymers, quartz, glass and semiconductors.

Claim 71 (New) The integrated optical waveguide of claim 68 wherein said substrate is composed of materials chosen from a group comprising silicon, quartz, fused silica, glass, or a polymeric material.

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